What Is Claimed Is:

		_			•	, 7		£
٦	1.	ln	an	adaptive	speea	COULTOI	system	LOI

- a vehicle, a method for controlling vehicle
- 3 deceleration, the method comprising:
- determining a speed of the vehicle; and
- 5 setting a maximum allowed vehicle
- 6 deceleration based on the vehicle speed determined.
- 1 2. The method of claim 1 wherein setting a
- 2 maximum allowed vehicle deceleration based on the
- 3 vehicle speed includes adjusting the maximum allowed
- 4 vehicle deceleration in an inverse relationship to the
- 5 vehicle speed.
- 1 3. The method of claim 2 wherein adjusting
- 2 the maximum allowed vehicle deceleration comprises
- 3 decreasing the maximum allowed vehicle deceleration as
- 4 the vehicle speed increases.
- 1 4. The method of claim 2 wherein adjusting
- the maximum allowed vehicle deceleration comprises
- 3 increasing the maximum allowed vehicle deceleration as
- 4 the vehicle speed decreases.
- 1 5. The method of claim 2 wherein the
- 2 maximum allowed vehicle deceleration is capable of
- 3 varying continuously.

- 1 6. The method of claim 5 wherein the
- 2 maximum allowed vehicle deceleration is capable of
- 3 varying in a range between about 0.2 g and about
- 4 0.3 g.
- 7. The method of claim 2 wherein the
- 2 maximum allowed vehicle deceleration is an exponential
- 3 function of the vehicle speed.
- 1 8. The method of claim 7 wherein the
- 2 maximum allowed vehicle deceleration is defined by the
- 3 equation:
- 4 MAXDECEL = $0.2 + 160/(VEHSPD + 40)^2$,
- 5 where MAXDECEL is the maximum allowed vehicle
- 6 deceleration, and VEHSPD is the vehicle speed.
- 9. In an adaptive speed control system for
- a vehicle, a system for controlling vehicle
- 3 deceleration, the system comprising:
- a receiver capable of receiving an input
- 5 signal indicative of a speed of the vehicle; and
- a controller capable of setting a maximum
- 7 allowed vehicle deceleration based on the vehicle-
- 8 speed.
- 1 10. The system of claim 9 wherein, to set a
- 2 maximum allowed vehicle deceleration based on the

- yehicle speed, the controller is capable of adjusting
- 4 the maximum allowed vehicle deceleration in an inverse
- 5 relationship to the vehicle speed.
- 1 11. The system of claim 10 wherein, to
- adjust the maximum allowed vehicle deceleration, the
- 3 controller is capable of decreasing the maximum
- 4 allowed vehicle deceleration as the vehicle speed
- 5 increases.
- 1 12. The system of claim 10 wherein, to
- adjust the maximum allowed vehicle deceleration, the
- 3 controller is capable of increasing the maximum
- 4 allowed vehicle deceleration as the vehicle speed
- 5 decreases.
- 1 13. The system of claim 10 wherein the
- 2 maximum allowed vehicle deceleration is capable of
- 3 varying continuously.
- 1 14. The system of claim 13 wherein the
- 2 maximum allowed vehicle deceleration is capable of
- 3 varying in a range between about 0.2 g and about
- 4 0.3 g.
- 1 15. The system of claim 10 wherein the
- 2 maximum allowed vehicle deceleration is an exponential
- 3 function of the vehicle speed.

- 1 16. The system of claim 15 wherein the
- 2 maximum allowed vehicle deceleration is defined by the
- 3 equation:
- 4 $MAXDECEL = 0.2 + 160/(VEHSPD + 40)^2$,
- 5 where MAXDECEL is the maximum allowed vehicle
- 6 deceleration, and VEHSPD is the vehicle speed.